El-Moasser Final Examinations

1. Toy cars need energy to do all the following functions, except a. moving forward and backward. c. moving right and left. 2. Sand is formed due to breaking down of	C.	(may)	
(B) What happens if ?			
Lichens growing on rocks produce acids.			
2 (A) Put (V) or (X):		,	
1. You need gasoline to move a bicycle.		()
2. A solar panel consists of one small solar cell.		1)
a that of anomy chains start with the moon.	etrov	-)
4. We cannot create a new form of energy, and also we cannot de	Suby	()
an existed form of energy.		,	1
(B) Correct the underlined word:	1		1
1. Deltas are formed by weathering process.	(*******)
2. Dunes are lowland areas which have gently sloped sides.	(*********)
(A) Write the scientific term for each of the following :			
A device used to convert electrical energy into light energy.	(********)
2. Natural resources of energy, that take a short period of time			
to be renewed.	()
3. A natural movement of air that is resulted from the difference			
in temperature between cold and hot air.	(*******)
. The energy produced from a battery.	(*******)
B) Give a reason for the following :			
le must turn off lights that we are not needed for a while.			

- A - OFF LITE	correct answer:		
(A) Choose and ene	correct answer : ergy when using th	e hair dryer is the	energy.
4 The "	b potential	c. kinetic	d. thermal
a. electros the	rough turbines in	dams to generate	energy.
a electrical fuels no	ed to be	formed under the	Earth's surface.
a. five years		b. ten years	
- adrode Of	years	d. millions of y	/ears
4. The steps of fo	orming fossil fuel,	don't include	of the remains of the living
a. decaying	b. cooling	c. burying	d. heating
con Give a reason	for the following	g:	
fron inside rocks	may rust.		
Mon monde i e e e		***************************************	***************************************
		************************	(3.11.):22.11.3.11.3.11.3.11.3.11.3.11.3.11.3.1
(A) Complete the	following senter	ices :	
		sed to grind grains to generate	s to make flour hundreds of
2. In any energy of	hain, some of the	energy is lost in	the form of
3. Wood and			
examples of fos			and are
examples of fos 4. When you ride a	sil fuel. a bicycle, the	of biofuel, while	ed in your body is converted
examples of fos 4. When you ride a into ene	sil fuel. a bicycle, the ergy which cause	of biofuel, while	ed in your body is converted
examples of fos 4. When you ride a into ene (B) What happens	sil fuel. a bicycle, the ergy which cause if?	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.
examples of fos 4. When you ride a into ene (B) What happens	sil fuel. a bicycle, the ergy which cause if?	of biofuel, while energy store the bicycle to mo	ed in your body is converted
examples of fos 4. When you ride a into ene (B) What happens	sil fuel. a bicycle, the ergy which cause if?	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.
examples of fos 4. When you ride a into ene (B) What happens	sil fuel. a bicycle, the ergy which cause if?	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.
examples of fos 4. When you ride a into ene (B) What happens A river erodes the s	sil fuel. a bicycle, the ergy which cause if? sediments of a m	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.
examples of fos 4. When you ride a into	sil fuel. a bicycle, the ergy which cause if? sediments of a m	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.
examples of fos 4. When you ride a into ene (B) What happens	sil fuel. a bicycle, the ergy which cause if? sediments of a m lerlined words: of a river travels	of biofuel, while energy store the bicycle to mo	ed in your body is converted ove.

(B) Look at the following figures, then put (√) or (x):





car (1)

car (2)

1.	The movement	of the	two	cars	can	be	controlled	from a	a distance	by	using
	a remote contro	ol.									

2. Car (2) use sunlight to move.

3. The two cars can convert the chemical energy stored in their batteries into electrical energy.

4. We can use an electric cable to recharge the battery that is placed in car (1) again if it runs out.

Model Exam 3

(A) Choose the correct answer:

1. All the following are processes that can change the Earth's surface, except

a. digestion.

b. erosion.

c. weathering.

d. deposition.

2. Electric wires are made of

a. copper.

b. carbon.

c. wood.

d. glass.

3. All the following are forms of fuel, except

a. wood.

b. natural gas.

c. gasoline.

d. glass.

4. The Sun provides us with and and

a. sound - heat.

b. light - electricity.

c. sound - light.

d. heat - light.

(B) Give a reason for the following:

The used amount of fossil fuel cannot be replaced as quickly as it is consumed.

2 (A) Correct the underlined words:

1. Curiosity is a robotic vehicle that is designed to explore the surface of moon.

2. Hydroelectric energy, is one of non-renewable er	nergy resources. (
---	--------------------

3. Small solar panels are used to sup	ply one light bulb with soun	d energy.
3 5110		()
4. Toy cars depend on fuel as a source	ce of electrical energy.	()
(5) What happens if ? You turn on an electric fan.	(according to the	change of energy)
40 mily lawy have been a consequent to the consequence of the conseque	The a second contract of the second contract	

(A) Choose from column (B) what suits it in column (A):

(A)	(B)
Water Wind energy.	a. It needs extreme heat and pressure to be formed from remains of dead plants.
3. Coal.	b. It is the main resource of energy of the Earth's surface
4. The Sun	c. It is gaseous renewable resource of energy.
4, 1110	d. It is a liquid renewable resource of energy.
	e. It is a solid renewable resource of energy.

3. 4.

(B) Look at the following figures, then complete the following sentences:



Device (1)



Device (2)



Device (3)



Device (4)

- 1. The electrical energy used to operate devices number

Model Exam 4

(A) Choose the correct answer:

- 1. All the following are renewable energy resources, except
 - a. waterfalls.
- b. coal.
- c. the Sun.
- d. wind.
- 2. Hydroelectric energy is generated from
 - a. waterfalls only.

b. waterfalls and dams.

c. biofuel only.

- d. biofuel and fossil fuel.
- 3. Both hair dryer and electrical water kettle produce energy.
 - a. chemical b. thermal
- c. light
- d. potential

2.

a. electrical b	the following:		
Plants of wetland are	the following . as help in formation of deltas.	271116.	
	ic term of each of the following	:	
(A) Write the scientifi	water changes into water vapour	to move cars.	
1 A PROCES III WILLIAM	4 14 15 11500		
2. The liquid that store	s chemical energy, and it is a second second from remains of dead animal prince.	(10000000000000000000000000000000000000	
3. A fuel that is proofe under the Earth's su	urface.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4. It is a device that pro	oduces light from electricity.		
(B) What happens if	ontrolled toy car batteries is rur	nning out.	
The charge of remote of	controlled toy car battern	***************************************	
Sand dunes are the la and sandy desert.	ing table :	(
	Used energy	Produced energy	0
	energy	Light energy	
1.	energy	and energy	

..... energy

..... energy

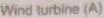
shoose the	correct answer:				
(A) Chouse	correct answer: se the hand bell, the	e energy cl	hanges into sound energy	-	
1. Miles	b. thermal	c. kinetic	d. electrical		
2 Using conver the solar ene	gent shee ergy.	ets in cooking food i	s one of the benefits of us	ing	
agner	b. plastic	c. mirror	d. wooden		
a. por water 6	evaporates by the	help of heat produc	ed from		
a. kettles.		b. the Sun.			
electric he	aters.	d. electric iron			
4. Extreme hea	t and pressure un	der the Earth's surf	ace has an important role	in	
a. wood.	b. wind.	c. fossil fuel.	d. biofuel.		
(B) What happe	ens to ?				
		nt of gasoline in a	car decreases.		
	******************************	******************************		receive the second	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************		ierie	
(A) Put (V) or	(X):	1 200			
1. Deposition p	rocess never cha	nge the shape of th	ne land.	(
2. There is a st	tored chemical en	ergy inside the food	d we eat.	(
3. Machines m	ake our life more	easier.		-	
4. We have to	conserve all forms	s of fuel		(
	son for the follow			(
	y important for pla	9			
Jumgric 15 vor	y important for pia	into and animais.			

(A) Complete	the following sen	tences :			
1. When we ex	xpose our bodies	to the Sun we feel	*************		
2. The energy	can be fr	om one form to an	other.		
3. Sediments		e remains of	and forming		
4. Blowing of	strong in	the desert may forr	n large sand dunes.		

(B) If the two wind turbines in front of you are affected by the different wind forces Answer the following questions:









Wind turbine (B)

1 1	Afhich wind	turbine spins	faster?	(Give a	reason	for	your	answer)	
-----	-------------	---------------	---------	---------	--------	-----	------	---------	--

2. Which wind turbine generates less electrical energy?

Model Exam 6

(A) Choose the correct answer:

- 1. When a river meets a sea or an ocean, a landform known as is formed
 - a. canyon
- b. volcano
- c. mountain
- d. delta
- 2. Oil is a non-renewable energy resource that is used inside a
 - a. flash light.

- b. car engine. c. electric fan. d. washing machine.
- 3. It takes several for a spacecraft to travel from Earth to Mars.
 - a. seconds
- b. minutes
- c. days
- d. months
- 4. You feel warm when you rub your hands together, because energy changes into thermal energy.
 - a. kinetic
- b. light
- c. electrical d. sound

(B) What happens if ...?

Sea creatures were buried under the Earth's surface over millions of years.

2 (A) Correct the underlined words:

1. Watermill turbines generate electricity by using the energy of wind movement.

2. Moon is the main source of energy on Earth.						(-				
2. Moon	energy	that	comes	from	the	Sun,	for	cooking	foods	

3. We need sound states and warming houses.

- 4. Fossil fuel include oil, coal and wood.
- (B) Give a reason for the following:

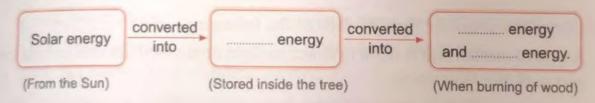
Biofuel is considered as a renewable fuel.

(A) Put (V) or (X):

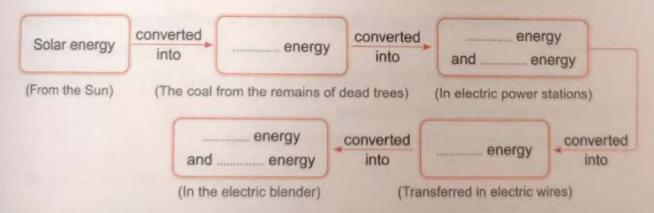
- 1. Both canyons and valleys often have river in their bottom. (
- 2. The walls of valleys are vertical and steep. (
- 3. Deltas are formed as a result of silt deposition. (
- 4. The Nile River pour its water in the Red Sea.
- (B) Use the following words to complete the energy chains below. (you may use the same word more than once):

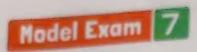
(Thermal - Chemical - Kinetic - Electrical - Sound - Light)

1. The energy chain of burning some branches of a tree :



2. The energy chain of electric blender.





(A) Choose the correct answer:	anyored by
1. 40 million years ago, Wadi Al-l	d. mud.
	c. sea. re from output energies when operating the
mobile phone. a. electrical b. potential 3. We can use the energy obtaine	c. chemical d. light d from burning of wood directly in all of the
a. warming houses. c. cooking food. 4. When land and water areas on l	b. operating television. d. boiling water. Earth absorb the solar energy, the
a. temperature on Earth c. speed of rotation of moon	b. speed of rotation of Earth d. speed of rotation of Sun
(B) What happens if? The kinetic energy of wind applied t	to the wind turbines decreases.
and analy the food inside.	made from some types of plants such as
and wood chine	of flowing or falling water into electrical
energy. 4. The energy produced from batterie	es. (
(B) Give a reason for the following:	
Some calculators use the sunlight to be	be operated.
(A) From your understanding of how stations. Put each of the following	electricity is generated in electric power g words in front of its suitable sentence:
Its movement produces kinetic ener	
2. It changes kinetic energy into electri	

(B) Look at the opposition of the name of this glass of the second of th	site picture, the ass building is g of this building ing the man the Sun. The sun the sun the ing is converted in that warms the ing this building allowing grow in	n complete the follows farmers	es, (
tire with the road. a. light b. 2. Using water to general with strong winds c. with weak winds. 3. Inside the electric part and turbines. b. 4. While playing guitan	electrical erate electricity s. ower station, h generators.	c. potential depends on place b. where dams and where boats sate atting of	re built on rivers. ail in rivers. produce steam. d. fuel.	e's
B) Give a reason for the When you press on the A) complete the follows:	the following : e spring of soa	p dispenser, the some (according)		
_	ow of,	that causes the in	crease of the	

3	In some villages	solar panels are used to generate	but.
	to operate	equipment.	

4 Sand dunes are in continuous motion due to the movement of

(B) What happens if ...?

You turn on the TV

(according to the change of arc...

BIAI Give one example for each of the following

- 1. A renewable resource of energy:
- 2. A non-renewable resource of energy:
- 3. A method of conserving fossil fuel:
- 4 A disadvantage of using fossil fuel in energy production :

El Look at the following figures, then complete the following energy cha-



Figure (1)



Figure (2)



Figure (3)



Figure (4)



Figure (5)

Energy in figure converted into

Chemical energy stored in figure

converted into Thermal energy and kinetic energy in figure

Thermal energy that is produced from the device in figure converted

Electrical energy that is travelled through | figure

converted

55

1	The same of	14 m 3	-	
Į.	100	el E	tom:	

theore the correct answer: The output energy when playing drums is the energy chemical b. light c. sound potential If the rain falls over a canyon for several times per year is depth increases. It becomes flat. If the the windmill blades rotates, this causes wind turbines to rotate and generating energy. If electrical b solar chemical dipotential All the following are forms of fossil fuel, except water. If what happens if? Agenerator in an electric power station is damaged. The movement of a generator in electric power stations produces potential energy. The amount of oil on Earth is limited. The rocess in which rocks are broken down into smaller particles. The rocess in which small broken rocks move from a place to another by the help of wind or water.	Ime is the			
the rain falls over a canyon for several times per year its depth increases. it becomes flat. the windmill blades rotates, this causes wind turbines to rotate and generating energy. electrical b solar chemical d potential All the following are forms of fossil fuel, except water. b. coal. c natural gas. d oil. Fi what happens if? Agenerator in an electric power station is damaged. (A) Put (v') or (x'): 1. Energy may be destroyed inside different devices. 2. Grinding of biscuits by hands into fine powder has the same effect of mechanical weathering of rocks. 3. The movement of a generator in electric power stations produces potential energy. 4. The amount of oil on Earth is limited. (B) Write the scientific term of each of the following: 1. Process in which rocks are broken down into smaller particles. (C) 2. Process in which small broken rocks move from a place to another by the help	Ime is the			
chemical bright c sound potential potential if the rain falls over a canyon for several times per year bits depth increases. b its depth decreases it becomes flat. d it is not be affected. When the windmill blades rotates, this causes wind turbines to rotate and generating energy. electrical bisolar chemical dipotential all the following are forms of fossil fuel, except water. b. coal. c natural gas. d oil. What happens if? Agenerator in an electric power station is damaged. A Put (/) or (x): 1 Energy may be destroyed inside different devices. () 2 Grinding of biscuits by hands into fine powder has the same effect of mechanical weathering of rocks. () 3. The movement of a generator in electric power stations produces potential energy. () 4. The amount of oil on Earth is limited. () (B) Write the scientific term of each of the following: 1. Process in which rocks are broken down into smaller particles. () 2. Process in which small broken rocks move from a place to another by the help	in is tile	energy		
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(8) Write the scientific term of each of the following: 1. Process in which rocks are broken down into smaller particles. () 2. Process in which small broken rocks move from a place to another by the help			()
1. Process in which rocks are broken down into smaller particles. () 2. Process in which small broken rocks move from a place to another by the help	d.		()
2. Process in which small broken rocks move from a place to another by the help	of the following:			
2. Process in which small broken rocks move from a place to another by the help	down into smalle	r particles. ()
of whild of water.				
(A) Complete the following sentences:	es :			
The origin of sand is the breaking down of some types of		es of .		
2. The type of weathering in which the rocks are broken down due to the presence			resen	се
(A) Complete the following sentence 1. The origin of sand is the breaking of the type of weathering in which the		b. its depth decreated it is not be affective chemical uel, exception natural gas. In is damaged. If the following: down into smalle its move from a possible common some types.	b. its depth decreases d. it is not be affected. his causes wind turbines to rotate and c chemical uel, except c natural gas. d oil. If erent devices. ine powder has the same effect of ectric power stations produces potent d. of the following: down into smaller particles. (ks move from a place to another by the content of the conte	b. its depth decreases d. it is not be affected. his causes wind turbines to rotate and c chemical d potential uel, except c natural gas. d oil. fferent devices. ine powder has the same effect of ectric power stations produces potential d. of the following: down into smaller particles. (ks move from a place to another by the hel (es: down of some types of e rocks are broken down due to the present

3	The	change	of	electrical	energy	into	sound	energy	in the	e radio is	ন্ম	50 p 3
	that	proves !	he	law of								

4 The natural resources that can be replaced shortly after being used are resources of energy

- (B) Mention the input and output energies of the opposite de co
- 1. Input energy:

2.	Output	energy:	
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Model Exam 10

IAI	Choose	tho	correct	answer	1
1.	Cultions.	6116	Courter	Ciliana.	

- 1. Which of the following is a renewable energy resources?
 - a. Running bicycle.

b. Running car.

c. Running water.

- d. Running person.
- 2. Curiosity rover is designed to explore
 - a Earth planet. b Mars planet. c. the Sun.
- d. the moon.
- 3. The change of energy in an is opposite to the change of energy in a wind turbine.

 - a electric bell b electric heater c. electric iron
 - d. electric fan
- 4. All the following factors play an important role in the formation of fossil fuel. except
 - a. extreme pressure.
- b. extreme heat.

c. the moon light.

d. rocks and sediment.

(B) Give a reason for the following:

Coal is considered as a nonrenewable energy resource.

[2] (A) Write the scientific term of each of the following:

- 1. The matter that produces steam on heating, which is used to turn turbines in electric power station.
- 2. A mill that is turned by water flow.
- 3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.
- 4. The energy used to play a drum.

(B) What	hapl	pens IT	0006			
(B) Wille	woulf	hands	near	the	lighted	lamp
- WILL DILL	Ann.					

(A) Correct the underlined words :

- 1. The amount of biofuel that is consumed, cannot be replaced as quickly as it is used.
- 2. Dams are built on rivers in order to generate solar energy.
- 3. The origin of sand is the breaking down of some types of glass. (
- 4. Plant roots help in the formation of rocks.

(B) Look at these electric devices, then complete the following sentences:







Device (2)



Device (3)

- 1. Sound and light energies are produced in the device number and help it to do its function.
- 2. Kinetic energy is produced in devices number and
- 3. Noise from devices number and is wasted energy, because sound doesn't help the devices do their functions.
- 4. All of these devices are operated by energy that is transmitted from stations through wires.

Model Examinations

4. a

EI-Moasser Final Examination Models

Model Exam 1

- 3. d 2. 0
- 1 (A) 1. d (B) Minerals of rocks dissolve causing their breaking down.
- 2. (×) 2 (A) 1. (×) 4. (1) 3. (x)
 - (B) 1. deposition 2. valleys
- 3 (A) 1. Electric bulb. 2. Renewable resources of
 - energy.
 - 3. Wind.
 - 4. Electrical energy.
 - (B) To conserve the electricity.

Model Exam

- 1 (A) 1. a 4. b 2. a
 - (B) Due to the reaction between iron and oxygen of air.
- 2 (A) 1. windmills watermills electricity.
 - 2. heat.
 - 3. charcoal oil coal
 - 4. chemical kinetic
 - (B) A canyon is formed.
- 3 (A) 1. increases 2. gentle
 - (B) 1. (✓) 2. (×) 3. (1) 4. (x)

Model Exam

- (A) 1, a 2. a 4. d (B) Because fossil fuel is formed
- over millions of years.
- 2 (A) 1. Mars. 2. renewable 4. batteries 3. electrical (B) Electrical energy changes into kinetic energy.
- 4. b 3 (A) 1. d 3. a 2. c (B) 1. (2) - (3) - (4)2.(3)-(4)

- 4. a 1 (A) 1. b 3. b 2. b (B) Because they help in increasing the rate of deposition process.
- (A) 1. Evaporation.
 - 2. Gasoline.
 - Fossil fuel.
 - 4. Electric bulb.
 - (B) We can recharge its batteries by connecting toy car to a nearby charger or replacing old batteries with new ones.
- 2. (1) 3 (A) 1. (√) 4. (X) 3. (×)
 - (B) 1. Solar thermal 2. Kinetic - Electrical

- (A) 1. c 2. C
- 4. C 3. b
- (B) We have to stop at the nearest gas station to fill the tank of the car.
- 2 (A) 1. (×)
- 2. (1)
- 3. (1)
- 4. (1)
- (B) Because without sunlight plants will die, and then the animals that eat them will die also.
- 3 (A) 1. warm.
- 2. changed
- 3. plants animals
- 4. wind
- (B) 1. (B), because it is affected by strong wind.
 - 2. (A)

Model Exam

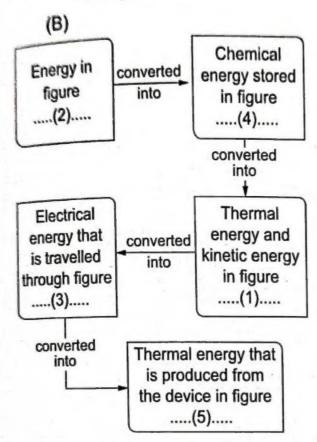
- (A) 1. d 2. b 3. d 4. a
 - (B) Oil and natural gas are formed.
- 2 (A) 1. water flow. 2. Sun
 - 3. solar
- 4. natural gas.
- (B) Because it can be replaced shortly after it is used.
- 3 (A) 1. (✓)
- 2. (*)
- 3. (1)
- 4. (x)
- (B) 1. Chemical Thermal light
 - Chemical Thermal Kinetic - Electric - Kinetic - Sound

Model Exam

- 1 (A) 1. c 2. d
- 3. b
- (B) The amount of produced 4. a electricity will decrease.
- (A) 1. Concave mirrors.
 - 2. Liquid fuel.
 - 3. Water turbine.
 - Electrical energy.
 - (B) Because sunlight is converted into electrical energy which calculators use it to be operated.
- 3 (A) 1. Turbine
- 2. Generator
- 3. Coal
- 4. Steam
- (B) 1. greenhouse.
- 2. radiant
- 3. thermal
- 4. warm

- (A) 1. d 2. b 3. c
 - (B) Because the potential energy stored in the spring changes into kinetic energy that moves the soap upward.
- 2 (A) 1. mechanical chemical
 - 2. water potential
 - electrical irrigation
 - 4. wind.
 - (B) The electrical energy is converted into sound energy and light energy.

- (A) 1. The Sun.
- 2. Coal.
- Walking or biking instead of driving a car.
- 4. Air pollution.



- 1 (A) 1. c
- 2. a
- 3. a
- 4 a
- (B) It will not produce electrical energy.
- 2 (A) 1. (×)
- 2. (1)
- 3. (*)
- 4. (1)
- (B) 1. Weathering
- 2. Erosion
- 3 (A) 1. rocks.
- 2. mechanical
- 3. conservation of energy.
- 4. renewable

- (B) 1. Electrical energy.
 - 2. Thermal energy.

- (A) 1. c
- 2. b
- 3. d
- 4. c
- (B) Because it is used at a rate faster than it can be renewed.
- 2 (A) 1. Water.
- 2. Watermill.
- 3. Deposition.
- 4. Kinetic energy.
- (B) You feel warm, because some electrical energy is converted into thermal energy.
- 3 (A) 1. fossil fuel
- 2. electrical
- 3. rocks
- 4. decomposition
- (B) 1. (2)
- 2.(1)-(3)
- 3.(1)-(3)
- 4. electrical electric power